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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/815,167

03/31/2004

Philip Mattos

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03/06/2008

SEED INTELLECTUAL PROPERTY LAW GROUP PLLC  
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EXAMINER

BURD, KEVIN MICHAEL

ART UNIT

PAPER NUMBER

2611

MAIL DATE

DELIVERY MODE

03/06/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/815,167	<b>Applicant(s)</b> MATTOS, PHILIP	
	<b>Examiner</b> Kevin M. Burd	<b>Art Unit</b> 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 November 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

1. This office action, in response to the remarks filed 11/19/2007, is a non-final office action.

### ***Response to Arguments***

2. Applicant's arguments, with respect to the rejections of the claims have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of Jung (US 7,161,977).

### ***Priority***

3. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Great Britain on 3/31/2003. It is noted, however, that applicant has not filed a certified copy of the 0307442.4 application as required by 35 U.S.C. 119(b).

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Jung (US 7,161,977).

Regarding claims 1, 11 and 24, Jung discloses a GPS receiver (figure 3) having a ratio based signal acquisition method (abstract). The GPS signal is received and downconverted using a reference oscillator 26. The downconverted signal is digitized in digitizer 28. The method determines first correlation values at code phases for a first period of the DSSS signal (column 8, lines 34-37). Second correlation values at code phases for a second period of the DSSS signal are determined (column 8, lines 58-61). Peak values for the first and second correlation values are determined and tentative acquisition is made when the peak correlation values from the first and second time periods match (column 8, lines 66-67). The time periods and peak values are shown in figure 6.

Regarding claims 2-4, 25 and 26, a correlation peak shown in figure 6 will be  $N$  times the mean correlation amplitude, where  $N$  is in the approximate range of 2 to 4.

Regarding claim 5-7, a correlation peak is the largest peak selected and the signal is at the same frequency for each of the correlation results (figure 3).

Regarding claims 8-10, Jung discloses the first time period is selected to be one 10 millisecond accumulation time period and the second time period is selected to be ten 10 millisecond accumulation time period (column 6, lines 51-58).

Regarding claims 12 and 18-20, Jung discloses a GPS receiver (figure 3) having a ratio based signal acquisition method (abstract). The GPS receiver receives a signal and downconverts the signal using a reference oscillator 26. The downconverted signal

is digitized in digitizer 28. The receiver determines first correlation values at code phases for a first period of the DSSS signal (column 8, lines 34-37). Second correlation values at code phases for a second period of the DSSS signal are determined (column 8, lines 58-61). Peak values for the first and second correlation values are determined and tentative acquisition is made when the peak correlation values from the first and second time periods match (column 8, lines 66-67). The time periods and peak values are shown in figure 6.

Regarding claims 13-15, Jung discloses the first time period is selected to be one 10 millisecond accumulation time period and the second time period is selected to be ten 10 millisecond accumulation time period (column 6, lines 51-58).

Regarding claims 16, 17, 21 and 22, a correlation peak shown in figure 6 will be N times the mean correlation amplitude, where N is in the approximate range of 2 to 4.

Regarding claim 23, Jung discloses the first time period is selected to be one 10 millisecond accumulation time period and the second time period is selected to be ten 10 millisecond accumulation time period (column 6, lines 51-58).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin M. Burd/  
Primary Examiner, Art Unit 2611  
2/26/2008